



“Preserving the pastwith an eye on the Future”



Defense Visual Information Center



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DVIC Mission

- ❖ Provide the storage and safeguarding of irreplaceable DoD motion and still media records
- ❖ Ensure the records are accessible to DoD, Federal and state agencies, and the American public



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Electronic Records Management



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Still Imagery

- ❖ Still Video format (72dpi)
 - ❖ Solved immediacy issues
 - ❖ Not enough resolution for print (300 dpi)
 - ❖ Pixelization on prints larger than 5x7
 - ❖ Lack of industry standards
 - ❖ Many formats competing for consumer dollars
 - ❖ Created a test bed for industry collaboration
 - ❖ No associated metadata
 - ❖ Released/Not Released



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Still Imagery

- ❖ JPEG Standard

- ❖ Joint Photographic Experts Group

- ❖ JPEG – vs – TIFF

- ❖ Lossy – vs – lossless compression

- ❖ Compression required for our business model

- ❖ Imagery competing for bandwidth with intelligence



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Still Imagery

- ❖ DoD Still Imagery Standard
 - ❖ JPEG
 - ❖ Open source coding for migration and data transportability
 - ❖ Minimum 300 dpi (longest side)
 - ❖ Compressed at High Quality
 - ❖ Imbedded metadata
 - ❖ 3 resolutions – Thumbnail, Screen, Archival
 - ❖ Long term sustainability
 - ❖ Format
 - ❖ Compression
 - ❖ Usability
 - ❖ Storage costs



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Still Imagery

❖ IPTC

- ❖ International Photographic Telecommunications Consortium

- ❖ Metadata standards

- ❖ Automatically recorded metadata

- ❖ Date

- ❖ Camera settings

- ❖ Format

- ❖ Location - GPS

- ❖ User input metadata

- ❖ Modifiable fields to suit user needs

- ❖ Associated Press style for captions



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Still Imagery

DoD/IPTC Attributes [DA-SC-85-06390]

****Caption:**
Brigadier General John S. Peppers, right, Assistant Division Commander, 25th Infantry Division, and Lieutenant General Pato Mohamed Ashim Bin Mohamed Ali, chief of the Royal Malaysian Army, observe a combined arms live fire exercise at the Pohakuloa Training Area.

Operation/Exercise Name:
[]

****PH Rank/Name:** SSGT AL CHANG, USAF

PH Home Unit: []

PH TDY Unit: []

****VIRIN:** DA-SC-85-06390

****Image Source:** Film

****Caption Editor:** J. Webster

***Base/Locale:** []

***State/Prov:** HAWAII (HI)

***Country/Area:** UNITED STATES OF AMERICA (USA)

Filename: DA-SC-85-06390

****Date Shot:** m/d/yyyy
8/26/1984


Command: []

****Service Shown:** L

****Supplemental Category:** UNCLASS

*****Public Release Instructions:** RELEASED

Keywords: []

Thumbnail:


[Load Dft] [Save Dft] [Help] [Clear] [Revert] [Cancel] [OK]



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Still Imagery

- ❖ Digital Photography Transfer Cycle ERM
eGov Partners Meeting September 16, 2003
 - ❖ Developed transfer requirements for permanent digital photography records
 - ❖ NARA adopted the DoD still image standard



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Motion Imagery

- ❖ Digital Video formats
 - ❖ Solves immediacy issues
 - ❖ Broadcast standard needs a bigger pipeline
 - ❖ Satellite – expensive
 - ❖ Highly compressed video imagery jumpy
- ❖ Lack of industry standards
 - ❖ Many formats competing for consumer dollars
- ❖ No associated metadata
- ❖ Released/Not Released



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Motion Imagery

- ❖ Many similarities with still digital image effort
- ❖ No industry standard
- ❖ Hollywood settled on MPEG standard
- ❖ No DoD standard
- ❖ Military Service providers already producing content in many different formats



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Motion Imagery

- ❖ Additional challenges of digital motion:
 - ❖ Three tier structure – Subject, Item, Scene
 - ❖ Parent/child/grandchild relationship
 - ❖ Repurposed content – Stock used for other pieces
 - ❖ Metadata associated to scene or cut
 - ❖ No imbedded metadata standard
 - ❖ April 7, 2009 HDTV digital broadcast mandatory
 - ❖ Long term preservation of standard definition



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Motion Imagery

- ❖ What are we looking for in a DoD standard for motion?
 - ❖ MPEG? (2, 4, 7, 21)
 - ❖ Open source coding for migration and data transportability
 - ❖ Minimum sample rate (resolution)
 - ❖ Compressed at High Quality
 - ❖ Imbedded Metadata – does not exist (MPEG 21)
 - ❖ 3 resolutions – Thumbnail, Screen, Archival
 - ❖ Long term sustainability
 - ❖ Format
 - ❖ Compression
 - ❖ Usability
 - ❖ Storage costs



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Challenges

- ❖ Keep up with technology
- ❖ Look for open architecture source code products
- ❖ Look for automation tools to save man-hours
- ❖ Get buy-in from our constituents
- ❖ Upgrade migration plan annually
- ❖ Project database portability requirements
 - ❖ Wrappers
- ❖ Project long-term storage requirements
- ❖ Collaborate with partners to streamline the lifecycle management of Visual Information records



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